

OIPE

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/09/902,853

TIME: 11:26:35

Input Set : N:\Crf3\RULE60\09902853.raw

Output Set: N:\CRF3\01032002\I902853.raw

1 <110> APPLICANT: Genentech, Inc.
2 Ashkenazi, Avi
3 Botstein, David
4 Desnoyers, Luc
5 Eaton, Dan L.
6 Ferrara, Napoleone
7 Filvaroff, Ellen
8 Fong, Sherman
9 Gao, Wei-Qiang
10 Gerber, Hanspeter
11 Gerritsen, Mary E.
12 Goddard, A.
13 Godowski, Paul J.
14 Grimaldi, Christopher J.
15 Gurney, Austin L.
16 Hillan, Kenneth, J.
17 Kljavin, Ivar J.
18 Mather, Jennie P.
19 Pan, James
20 Paoni, Nicholas F.
21 Roy, Margaret Ann
22 Stewart, Timothy A.
23 Tumas, Daniel
24 Williams, P. Mickey
25 Wood, William, I.
26 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
27 Acids Encoding the Same
28 <130> FILE REFERENCE: 10466-14
29 <140> CURRENT APPLICATION NUMBER: 09/902,853
30 <141> CURRENT FILING DATE: 2001-07-10
31 <150> PRIOR APPLICATION NUMBER: US/09/665,350
32 <151> PRIOR FILING DATE: 2000-09-18
33 <150> PRIOR APPLICATION NUMBER: US 60/143,048
34 <151> PRIOR FILING DATE: 1999-07-07
35 <150> PRIOR APPLICATION NUMBER: US 60/145,698
36 <151> PRIOR FILING DATE: 1999-07-26
37 <150> PRIOR APPLICATION NUMBER: US 60/146,222
38 <151> PRIOR FILING DATE: 1999-07-28
39 <150> PRIOR APPLICATION NUMBER: PCT/US99/20594
40 <151> PRIOR FILING DATE: 1999-09-08
41 <150> PRIOR APPLICATION NUMBER: PCT/US99/20944
42 <151> PRIOR FILING DATE: 1999-09-13
43 <150> PRIOR APPLICATION NUMBER: PCT/US99/21090
44 <151> PRIOR FILING DATE: 1999-09-15
45 <150> PRIOR APPLICATION NUMBER: PCT/US99/21547
46 <151> PRIOR FILING DATE: 1999-09-15
47 <150> PRIOR APPLICATION NUMBER: PCT/US99/23089

RECEIVED

APR 01 2002

TECH CENTER 1600/2900

ENTERED

RECEIVED

APR 01 2002

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/902,853

DATE: 01/03/2002

TIME: 11:26:35

Input Set : N:\Crf3\RULE60\09902853.raw

Output Set: N:\CRF3\01032002\I902853.raw

```

48 <151> PRIOR FILING DATE: 1999-10-05
49 <150> PRIOR APPLICATION NUMBER: PCT/US99/28214
50 <151> PRIOR FILING DATE: 1999-11-29
51 <150> PRIOR APPLICATION NUMBER: PCT/US99/28313
52 <151> PRIOR FILING DATE: 1999-11-30
53 <150> PRIOR APPLICATION NUMBER: PCT/US99/28564
54 <151> PRIOR FILING DATE: 1999-12-02
55 <150> PRIOR APPLICATION NUMBER: PCT/US99/28565
56 <151> PRIOR FILING DATE: 1999-12-02
57 <150> PRIOR APPLICATION NUMBER: PCT/US99/30095
58 <151> PRIOR FILING DATE: 1999-12-16
59 <150> PRIOR APPLICATION NUMBER: PCT/US99/30911
60 <151> PRIOR FILING DATE: 1999-12-20
61 <150> PRIOR APPLICATION NUMBER: PCT/US99/30999
62 <151> PRIOR FILING DATE: 1999-12-20
63 <150> PRIOR APPLICATION NUMBER: PCT/US00/00219
64 <151> PRIOR FILING DATE: 2000-01-05
65 <160> NUMBER OF SEQ ID NOS: 423
67 <210> SEQ ID NO: 1
68 <211> LENGTH: 1825
69 <212> TYPE: DNA
70 <213> ORGANISM: Homo Sapien
71 <400> SEQUENCE: 1
72      actgcacctc gggttctatcg attgaattcc ccgggggatcc tctagagatc 50
73      cctgcacctc gacccacgcg tccggggccgg agcagcacgg ccgcaggacc 100
74      tggagctccg gctgctctt cccgcagcgc taccgccat gcgcctgccg 150
75      cgccgggccc cgctggggct cctgccgctt ctgctgctgc tgcgcgccgc 200
76      gccggaggcc gccaaagaag cgacgccctg ccaccgggtg cgggggctgg 250
77      tggacaagtt taaccagggg atggtggaca ccgcaaagaa gaactttggc 300
78      ggcgggaaca cggcttggga ggaaaagacg ctgtccaagt acgagtccag 350
79      cgagattcgc ctgctggaga tcctggaggg gctgtgcgag agcagcgact 400
80      tcgaatgcaa tcagatgcta gaggcgcagg aggagcaact ggaggcctgg 450
81      tggctgcagc tgaagagcga atatcctgac ttattcgagt ggttttgtgt 500
82      gaagacaactg aaagtgtgct gctctccagg aacctacggt ccgcactgtc 550
83      tcgcatgcca gggcggatcc cagaggccct gcagcgggaa tggccactgc 600
84      agcggagatg ggagcagaca gggcgacggg tcctgccggt gccacatggg 650
85      gtaccagggc ccgctgtgca ctgactgcat ggacggctac ttcagctcgc 700
86      tccggaacga gacccacagc atctgcacag cctgtgacga gtcctgcaag 750
87      acgtgctcgg gcctgacca cagagactgc ggcgagtgtg aagtgggctg 800
88      ggtgctggac gaggggcgct gtgtggatgt ggacgagtgt gcggccgagc 850
89      cgctccctg cagcgtgctg cagttctgta agaacgcaa cggtcctac 900
90      acgtgcgaag agtgtgactc cagctgtgtg ggctgcacag ggggaaggccc 950
91      aggaaactgt aaagagtgtg tctctggcta cgcgaggagg cacggacagt 1000
92      gtgcagatgt ggacgagtgc tctactagcag aaaaaacctg tgtgaggaaa 1050
93      aacgaaaact gctacaatac tccagggagc tacgtctgtg tgtgtcctga 1100
94      cggcttcgaa gaaacggaag atgcctgtgt gccgccggca gaggctgaag 1150
95      ccacagaagg agaaagccc acacagctgc cctcccgcga agacctgtaa 1200
96      tgtgccggac ttacccttta aattattcag aaggatgtcc cgtggaaaat 1250
97      gtggccctga ggatgccgtc tcctgcagtg gacagcggcg gggagaggct 1300

```

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/09/902,853

TIME: 11:26:35

Input Set : N:\Crif3\RULE60\09902853.raw

Output Set: N:\CRF3\01032002\I902853.raw

```

98      gcctgctctc taacgggtga ttctcatttg tcccttaaac agctgcattt 1350
99      cttgggttggt cttaaacaga cttgtatatt ttgatacagt tctttgtaat 1400
100     aaaattgacc attgtaggta atcaggagga aaaaaaaaaa aaaaaaaaaa 1450
101     aaagggcggc cgcgactcta gagtcgacct gcagaagctt ggccgccatg 1500
102     gcccaacttg tttattgcag cttataatgg ttacaaataa agcaatagca 1550
103     tcacaaattt cacaaataaa gcattttttt cactgcattc tagttgtggt 1600
104     ttgtccaaac tcatcaatgt atcttatcat gtctggatcg ggaattaatt 1650
105     cggcgagca ccatggcctg aaataacctc tgaaagagga acttggttag 1700
106     gtaccttctg aggcggaaag aaccagctgt ggaatgtgtg tcagttaggg 1750
107     tgtggaaagt ccccgagctc cccagcaggc agaagtatgc aagcatgcat 1800
108     ctcaattagt cagcaaccga gtttt 1825
110 <210> SEQ ID NO: 2
111 <211> LENGTH: 353
112 <212> TYPE: PRT
113 <213> ORGANISM: Homo Sapien
114 <400> SEQUENCE: 2
115     Met Arg Leu Pro Arg Arg Ala Ala Leu Gly Leu Leu Pro Leu Leu
116         1          5          10          15
117     Leu Leu Leu Pro Pro Ala Pro Glu Ala Ala Lys Lys Pro Thr Pro
118         20          25          30
119     Cys His Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met
120         35          40          45
121     Val Asp Thr Ala Lys Lys Asn Phe Gly Gly Gly Asn Thr Ala Trp
122         50          55          60
123     Glu Glu Lys Thr Leu Ser Lys Tyr Glu Ser Ser Glu Ile Arg Leu
124         65          70          75
125     Leu Glu Ile Leu Glu Gly Leu Cys Glu Ser Ser Asp Phe Glu Cys
126         80          85          90
127     Asn Gln Met Leu Glu Ala Gln Glu Glu His Leu Glu Ala Trp Trp
128         95          100         105
129     Leu Gln Leu Lys Ser Glu Tyr Pro Asp Leu Phe Glu Trp Phe Cys
130        110         115         120
131     Val Lys Thr Leu Lys Val Cys Cys Ser Pro Gly Thr Tyr Gly Pro
132        125         130         135
133     Asp Cys Leu Ala Cys Gln Gly Gly Ser Gln Arg Pro Cys Ser Gly
134        140         145         150
135     Asn Gly His Cys Ser Gly Asp Gly Ser Arg Gln Gly Asp Gly Ser
136        155         160         165
137     Cys Arg Cys His Met Gly Tyr Gln Gly Pro Leu Cys Thr Asp Cys
138        170         175         180
139     Met Asp Gly Tyr Phe Ser Ser Leu Arg Asn Glu Thr His Ser Ile
140        185         190         195
141     Cys Thr Ala Cys Asp Glu Ser Cys Lys Thr Cys Ser Gly Leu Thr
142        200         205         210
143     Asn Arg Asp Cys Gly Glu Cys Glu Val Gly Trp Val Leu Asp Glu
144        215         220         225
145     Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro Pro
146        230         235         240
147     Cys Ser Ala Ala Gln Phe Cys Lys Asn Ala Asn Gly Ser Tyr Thr

```

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/09/902,853

TIME: 11:26:35

Input Set : N:\Crif3\RULE60\09902853.raw

Output Set: N:\CRF3\01032002\I902853.raw

148		245		250		255
149	Cys Glu Glu Cys	Asp Ser Ser Cys Val	Gly Cys Thr Gly Glu Gly			
150		260		265		270
151	Pro Gly Asn Cys	Lys Glu Cys Ile Ser	Gly Tyr Ala Arg Glu His			
152		275		280		285
153	Gly Gln Cys Ala	Asp Val Asp Glu Cys	Ser Leu Ala Glu Lys Thr			
154		290		295		300
155	Cys Val Arg Lys	Asn Glu Asn Cys Tyr	Asn Thr Pro Gly Ser Tyr			
156		305		310		315
157	Val Cys Val Cys	Pro Asp Gly Phe Glu	Glu Thr Glu Asp Ala Cys			
158		320		325		330
159	Val Pro Pro Ala	Glu Ala Glu Ala Thr	Glu Gly Glu Ser Pro Thr			
160		335		340		345
161	Gln Leu Pro Ser	Arg Glu Asp Leu				
162		350				

164 <210> SEQ ID NO: 3
165 <211> LENGTH: 2206
166 <212> TYPE: DNA
167 <213> ORGANISM: Homo Sapien
168 <400> SEQUENCE: 3

169	cagggtccaac	tgcacctcgg	ttctatcgat	tgaattcccc	ggggatcctc	50
170	tagagatccc	tcgacctcga	cccacgcgtc	cgccaggccg	ggaggcgacg	100
171	cgcccagccg	tctaaacggg	aacagccctg	gctgagggag	ctgcagcgca	150
172	gcagagtatc	tgacggcgcc	aggttgcgta	ggtgcggcac	gaggagtttt	200
173	cccggcagcg	aggaggtcct	gagcagcatg	gcccggagga	gcgccttccc	250
174	tgccgcgcg	ctctggctct	ggagcatcct	cctgtgcctg	ctggcactgc	300
175	gggcgagggc	cgggccgcgc	caggaggaga	gcctgtacct	atggatcgat	350
176	gctcaccagg	caagagtact	cataggattt	gaagaagata	tcctgattgt	400
177	ttcagagggg	aaaatggcac	cttttacaca	tgatttcaga	aaagcgcaac	450
178	agagaatgcc	agctattcct	gtcaatatcc	attccatgaa	ttttacctgg	500
179	caagctgcag	ggcaggcaga	atacttctat	gaattcctgt	ccttgcgctc	550
180	cctggataaa	ggcatcatgg	cagatccaac	cgatcaatgtc	cctctgctgg	600
181	gaacagtgcc	tcacaaggca	tcagttgttc	aagttggttt	cccatgtcct	650
182	ggaaaacagg	atgggggtgg	agcatttgaa	gtggatgtga	ttgttatgaa	700
183	ttctgaaggc	aacaccattc	tccaaacacc	tcaaaatgct	atcttcttta	750
184	aaacatgtca	acaagctgag	tgcccaggcg	ggtgccgaaa	tggaggcttt	800
185	tgtaatgaaa	gacgcactcg	cgagtgtcct	gatgggttcc	acggacctca	850
186	ctgtgagaaa	gccctttgta	ccccacgatg	tatgaatggg	ggactttgtg	900
187	tgactcctgg	tttctgcata	tgcccacctg	gattctatgg	agtgaactgt	950
188	gacaaagcaa	actgctcaac	cacctgcttt	aatggaggga	cctgtttcta	1000
189	ccctggaaaa	tgtatttgcc	ctccaggact	agagggagag	cagtgtgaaa	1050
190	tcagcaaata	cccacaaccc	tgctcgaaatg	gaggtaaata	cattggtaaa	1100
191	agcaaatagt	agtgttccaa	aggttaccag	ggagacctct	gttcaaagcc	1150
192	tgtctgcgag	cctggctgtg	gtgcacatgg	aacctgccat	gaacccaaca	1200
193	aatgccaatg	tcaagaaggt	tggcatggaa	gacactgcaa	taaaaggta	1250
194	gaagccagcc	tcatacatgc	cctgaggcca	gcaggcgccc	agctcaggca	1300
195	gcacacgcct	tcacttaaaa	aggccgagga	gcggcgggat	ccacctgaat	1350
196	ccaattacat	ctggtgaact	ccgacatctg	aaacgtttta	agttacacca	1400
197	agttcatagc	ctttgttaac	ctttcatgtg	ttgaatgttc	aaataatgtt	1450

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/09/902,853

TIME: 11:26:35

Input Set : N:\Crif3\RULE60\09902853.raw

Output Set: N:\CRF3\01032002\I902853.raw

```

198   cttacactt aagaatactg gcctgaattt tattagcttc attataaatc 1500
199   actgagctga tattttactct tcctttttaag ttttctaagt acgtctgtag 1550
200   catgatggtg tagattttct tgtttcagtg ctttgggaca gattttatat 1600
201   tatgtcaatt gatcagggtg aaattttcag tgtgtagttg gcagatattt 1650
202   tcaaaattac aatgcattta tgggtgctgg gggcagggga acatcagaaa 1700
203   ggttaaattg ggcaaaaatg cgttaagtcac aagaatttgg atggtgcagt 1750
204   taatgttgaa gttacagcat ttcagatttt attgtcagat atttagatgt 1800
205   ttgttacatt tttaaaaatt gctcttaatt tttaaactct caatacaata 1850
206   tattttgacc ttaccattat tccagagatt cagtattaaa aaaaaaaaaa 1900
207   ttacactgtg gtagtggcat ttaaacaata taatatattc taaacacaat 1950
208   gaaataggga atataatgta tgaacttttt gcattggcct gaagcaatat 2000
209   aatataattg aaacaaaaca cagctcttac ctaataaaca ttttatactg 2050
210   tttgtatgta taaaataaag gtgctgcttt agttttttgg aaaaaaaaaa 2100
211   aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgccgc gactctagag 2150
212   tcgacctgca gaagcttggc cgccatggcc caacttgttt attgcagctt 2200
213   ataatg 2206
215 <210> SEQ ID NO: 4
216 <211> LENGTH: 379
217 <212> TYPE: PRT
218 <213> ORGANISM: Homo Sapien
219 <400> SEQUENCE: 4
220   Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Ala Leu Trp Leu Trp
221       1             5             10             15
222   Ser Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro
223               20             25             30
224   Pro Gln Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala
225               35             40             45
226   Arg Val Leu Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu
227               50             55             60
228   Gly Lys Met Ala Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln
229               65             70             75
230   Arg Met Pro Ala Ile Pro Val Asn Ile His Ser Met Asn Phe Thr
231               80             85             90
232   Trp Gln Ala Ala Gly Gln Ala Glu Tyr Phe Tyr Glu Phe Leu Ser
233               95            100            105
234   Leu Arg Ser Leu Asp Lys Gly Ile Met Ala Asp Pro Thr Val Asn
235               110            115            120
236   Val Pro Leu Leu Gly Thr Val Pro His Lys Ala Ser Val Val Gln
237               125            130            135
238   Val Gly Phe Pro Cys Leu Gly Lys Gln Asp Gly Val Ala Ala Phe
239               140            145            150
240   Glu Val Asp Val Ile Val Met Asn Ser Glu Gly Asn Thr Ile Leu
241               155            160            165
242   Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr Cys Gln Gln Ala
243               170            175            180
244   Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys Asn Glu Arg
245               185            190            195
246   Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His Cys Glu
247               200            205            210

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/902,853

DATE: 01/03/2002

TIME: 11:26:36

Input Set : N:\Crf3\RULE60\09902853.raw

Output Set: N:\CRF3\01032002\I902853.raw

L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:3339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131
L:4418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174
L:4528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:5403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
L:5404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206